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Term	Documents
BIFIDOBACTERIA.USPT.	227
BIFIDOBACTERIUM.USPT.	462
BIFIDOBACTERIUMS	0
BIFIDOBACTERIAS	0
(17 AND BIFIDOBACTERIA).USPT.	0
(L17 AND "BIFIDOBACTERIA").USPT.	0

Database:

US Patents Full-Text Database
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Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

L19

[Refine Search](#)[Recall Text](#)[Clear](#)**Search History****DATE:** Friday, October 18, 2002 [Printable Copy](#) [Create Case](#)

Set Name Query
side by side

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result set

DB=USPT; PLUR=YES; OP=OR

<u>L19</u>	L17 and "Bifidobacteria"	0	<u>L19</u>
<u>L18</u>	L17 and "Bifidobacterium"	0	<u>L18</u>
<u>L17</u>	"producing lactoferrin" and "bacteria"	14	<u>L17</u>
<u>L16</u>	"secreting lactoferrin" and "bacteria"	0	<u>L16</u>
<u>L15</u>	"Bifidobacterium" and "lactoferrin"	16	<u>L15</u>
<u>L14</u>	"lactoferrin" and "Bifidobacteria transformant"	0	<u>L14</u>
<u>L13</u>	bacteria and l10	0	<u>L13</u>
<u>L12</u>	L10 and "Bifidobacteria"	0	<u>L12</u>
<u>L11</u>	L10 and "Bifidobacterium"	0	<u>L11</u>
<u>L10</u>	"bacteria producing lactoferrin"	0	<u>L10</u>
<u>L9</u>	"producing lactoferrin"	18	<u>L9</u>
<u>L8</u>	"forming lactoferrin"	0	<u>L8</u>
<u>L7</u>	"secreting lactoferrin"	0	<u>L7</u>
<u>L6</u>	L5 and "secreting lactoferrin"	0	<u>L6</u>
<u>L5</u>	"lactoferrin"	714	<u>L5</u>
<u>L4</u>	"Bifidobacterium" and "secreting lactoferrin"	0	<u>L4</u>
<u>L3</u>	"lactoferrin" and "bifidobacterium"	16	<u>L3</u>
<u>L2</u>	L1 and "lactoferrin"	0	<u>L2</u>
<u>L1</u>	4087559.pn.	1	<u>L1</u>

END OF SEARCH HISTORY

L23 ANSWER 1 OF 10 AGRICOLA
 AN 2001:80759 AGRICOLA
 DN IND23234393
 TI Protection from gastrointestinal diseases with the use of probiotics.
 AU Marteau, P.R.; Vrese, M. de.; Cellier, C.J.; Schrezenmeir, J.
 AV DNAL (389.8 J824)
 SO The American journal of clinical nutrition, Feb 2001. Vol. 73, No. 2S. p. 430S-436S
 Publisher: Bethesda, Md. : American Society for Clinical Nutrition.
 CODEN: AJCNAC; ISSN: 0002-9165
 NTE Paper presented at the International Symposium on Probiotics and Prebiotics, June 11-12, 1998, Kiel, Germany.
 Includes references
 CY Maryland; United States
 DT Article
 FS U.S. Imprints not USDA, Experiment or Extension
 LA English

=> d 123 1-17

L23 ANSWER 1 OF 10 AGRICOLA
 AN 2001:80759 AGRICOLA
 DN IND23234393
 TI Protection from gastrointestinal diseases with the use of probiotics.
 AU Marteau, P.R.; Vrese, M. de.; Cellier, C.J.; Schrezenmeir, J.
 AV DNAL (389.8 J824)
 SO The American journal of clinical nutrition, Feb 2001. Vol. 73, No. 2S. p. 430S-436S
 Publisher: Bethesda, Md. : American Society for Clinical Nutrition.
 CODEN: AJCNAC; ISSN: 0002-9165
 NTE Paper presented at the International Symposium on Probiotics and Prebiotics, June 11-12, 1998, Kiel, Germany.
 Includes references
 CY Maryland; United States
 DT Article
 FS U.S. Imprints not USDA, Experiment or Extension
 LA English

L23 ANSWER 2 OF 10 SCISEARCH COPYRIGHT 2002 ISI (R)
 AN 2000:278428 SCISEARCH
 GA The Genuine Article (R) Number: 300VK
 TI Lactose intolerance
 AU Vesa T H (Reprint); Marteau P; Korpela R
 CS VALIO LTD, RES & DEV, POB 30, FIN-00039 VALIO, FINLAND (Reprint); FDN
 NUTR RES, HELSINKI, FINLAND; LAENNECK HOSP, PARIS, FRANCE
 CYA FINLAND; FRANCE
 SO JOURNAL OF THE AMERICAN COLLEGE OF NUTRITION, (APR 2000) Vol. 19, No. 2, Supp. [S], pp. S165-S175.
 Publisher: AMER COLL NUTRITION, C/O HOSP. JOINT DIS. 301 E. 17TH ST., NEW YORK, NY 10003.
 ISSN: 0731-5724.
 DT General Review; Journal
 FS LIFE
 LA English
 REC Reference Count: 133
 ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L23 ANSWER 3 OF 10 USPATFULL
 AN 1999:110011 USPATFULL
 TI Stabilized biologically active compounds contained in coated microgranules which can be suspended in alimentary fluids
 IN Santus, Giancarlo, Milan, Italy
 PA Recordati S.A. Chemical and Pharmaceutical Company, Chiasso, Switzerland
 (non-U.S. corporation)
 PI US 5952021 19990914
 AI US 1997-941730 19971001 (8)
 RLI Continuation of Ser. No. US 1995-458062, filed on 1 Jun 1995, now abandoned
 PRAI IT 1994-MI1231 19940614
 DT Utility
 FS Granted
 LN.CNT 735
 INCL INCLM: 426/034.000
 INCLS: 426/042.000; 426/051.000; 426/089.000; 426/580.000; 426/599.000
 NCL NCLM: 426/034.000
 NCLS: 426/042.000; 426/051.000; 426/089.000; 426/580.000; 426/599.000
 IC [6]
 ICM: A23C009-12
 EXF 426/34; 426/89; 426/96; 426/580; 426/42; 426/43; 426/49; 426/51; 426/52;
 426/590; 426/599
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L23 ANSWER 4 OF 10 USPATFULL
 AN 96:45800 USPATFULL
 TI Food additive intended for human consumption and as animal feed and foodstuffs containing it
 IN Delespaul, Gilbert, Vendome, France
 Dhoms, Philippe, Vendome, France
 Raibaud, Pierre, Jouy-en-Josas, France
 Szyliet, Odette, Igny, France
 PA Fromageries Bel, Paris, France (non-U.S. corporation)
 PI US 5520936 19960528
 WO 9221246 19921210
 AI US 1994-157049 19940131 (8)
 WO 1992-FR484 19920602
 19940131 PCT 371 date
 19940131 PCT 102(e) date
 PRAI FR 1991-6641 19910603
 DT Utility
 FS Granted
 LN.CNT 480
 INCL INCLM: 426/061.000
 INCLS: 424/093.100; 424/093.200; 424/093.300; 424/093.450; 424/093.460; 099/452.000; 435/200.000; 435/252.100; 435/252.900
 NCL NCLM: 426/061.000
 NCLS: 099/452.000; 424/093.100; 424/093.200; 424/093.300; 424/093.450; 424/093.460; 435/200.000; 435/252.100; 435/252.900
 IC [6]
 ICM: A23C009-12
 ICS: A01N063-00; C12N009-24; A01J011-00
 EXF 099/452; 424/93D; 424/93J; 424/93.1; 424/93.2; 424/93.3; 424/93.45; 424/93.46; 435/200; 435/252.1; 435/252.9; 426/61

L23 ANSWER 5 OF 10 CABA COPYRIGHT 2002 CABI
 AN 96:133073 CABA
 DN 960404131
 TI Improvement of lactose digestion in humans by ingestion of unfermented milk containing **Bifidobacterium** longum
 AU Jiang Tianan; Mustapha, A.; Savaiano, D. A.; Jiang, T. N.
 CS Department of Food Science and Nutrition, University of Minnesota, St. Paul 55108, Minnesota, USA.

SO Journal of Dairy Science, (1996) Vol. 79, No. 5, pp. 750-757. 28 ref.
ISSN: 0022-0302
DT Journal
LA English

L23 ANSWER 6 OF 10 AGRICOLA DUPLICATE 1
AN 1998:29783 AGRICOLA
DN IND20800043
TI Digestion and tolerance of lactose from yoghurt and different semi-solid
fermented dairy products containing Lactobacillus acidophilus and
bifidobacteria in lactose maldigesters--Is bacterial lactase important?
AU Vesa, T.H.; Marteau, P.; Zidi, S.; Briet, F.; Pochart, P.; Rambaud, J.C.
AV DNAL (QP141.A1J68)
SO European journal of clinical nutrition, Nov 1996. Vol. 50, No. 11. p.
730-733
Publisher: Basingstoke : Stockton Press.
CODEN: EJCNEQ; ISSN: 0954-3007
NTE Includes references
CY United Kingdom
DT Article
FS Non-U.S. Imprint other than FAO
LA English

L23 ANSWER 7 OF 10 JICST-Eplus COPYRIGHT 2002 JST
AN 960017524 JICST-Eplus
TI Intestinal adaptation to long-term lactose feeding in teh rat.
AU FUKUDA SHINSAKU; KAWAMURA KAZUKO; TAKAHASHI TOSHIYUKI; TONO HIROSHI; BABA
TAKIO; YOSHIDA YUTAKA
CS Hirosaki Univ.
SO Shoka to Kyushu (Digestion & Absorption), (1995) vol. 18, no. 1, pp.
103-106. Journal Code: X0025A (Fig. 4, Ref. 7)
ISSN: 0389-3626
CY Japan
DT Journal; Article
LA Japanese
STA New

L23 ANSWER 8 OF 10 CABA COPYRIGHT 2002 CABI DUPLICATE 2
AN 95:2251 CABA
DN 940404885
TI Dairy products and intestinal flora
AU Rambaud, J. C.; Bouhnik, Y.; Marteau, P.; Serrano Rios, M. [EDITOR];
Sastre, A. [EDITOR]; Perez Juez, M. A. [EDITOR]; Estrala, A. [EDITOR];
Sebastian, C. de [EDITOR]
CS Service de Gastroenterologie et Unite INSERM U 290, Hopital Saint-Lazare,
Paris, France.
SO (1994) pp. 389-399. 41 ref.
Publisher: A. A. Balkema. Rotterdam
Meeting Info.: Dairy products in human health and nutrition. Proceedings
of the 1st World Congress, Madrid, Spain, 7-10 June 1993.
ISBN: 90-5410-359-0
CY Netherlands Antilles
DT Conference Article
LA English

L23 ANSWER 9 OF 10 BIOSIS COPYRIGHT 2002 BIOSIS DUPLICATE 3
AN 1992:71289 BIOSIS
DN BA93:39744
TI STRAINS AND SPECIES OF LACTIC ACID BACTERIA IN FERMENTED MILKS YOGURTS
EFFECT ON IN-VIVO LACTOSE DIGESTION.
AU MARTINI M C; LEREBOURS E C; LIN W-J; HARLANDER S K; BERRADA N M; ANTOINE
J
M; SAVAIANO D A
CS DEP. OF FOOD SCI. AND NUTRITION, UNIV. MINNESOTA, ST. PAUL, MINN. 55108.
SO AM J CLIN NUTR, (1991) 54 (6), 1041-1046.
CODEN: AJCNAC. ISSN: 0002-9165.

FS BA; OLD
LA English

L23 ANSWER 10 OF 10 BIOBUSINESS COPYRIGHT 2002 BIOSISDUPLICATE 4
AN 90:41925 BIOBUSINESS
DN 0279539
TI Lactose and galactose contents in various yogurts and fermented milks.
AU DESMAISON A-M; PASCAUD H; TIXIER M
CS FAC. PHARMACIE, LAB. CHIM. BIOL., 2 RUE DU DOCTEUR MARCLAND, 87025
LIMOGES
CEDEX, FR.
SO SCIENCES DES ALIMENTS, (1990) VOL.10, NO.2, P.357-368.
FS NONUNIQUE
LA FRENCH

=> d 1 ab

L23 ANSWER 1 OF 10 AGRICOLA
AB Probiotics are nonpathogenic microorganisms that, when ingested, exert a positive influence on the health or physiology of the host. They can influence intestinal physiology either directly or indirectly through modulation of the endogenous ecosystem or immune system. The results that have been shown with a sufficient level of proof to enable probiotics to be used as treatments for gastrointestinal disturbances are 1) the good tolerance of yogurt compared with milk in subjects with primary or secondary lactose maldigestion, 2) the use of *Saccharomyces boulardii* and *Enterococcus faecium* SF 68 to prevent or shorten the duration of antibiotic-associated diarrhea, 3) the use of *S. boulardii* to prevent further recurrence of *Clostridium difficile*-associated diarrhea, and 4) the use of fermented milks containing *Lactobacillus rhamnosus* GG to shorten the duration of diarrhea in infants with rotavirus enteritis (and probably also in gastroenteritis of other causes). Effects that are otherwise suggested for diverse probiotics include alleviation of diarrhea of miscellaneous causes; prophylaxis of gastrointestinal infections, which includes traveler's diarrhea; and immunomodulation. Trials of gastrointestinal diseases that involve the ecosystem are currently being performed, eg, *Helicobacter pylori* infections, inflammatory bowel disease, and colon cancer.

=> d hit 1

L23 ANSWER 1 OF 10 AGRICOLA
CT **bifidobacterium**; colorectal cancer; diarrhea; diet treatment; disease prevention; food products; gastroenteritis; gastrointestinal diseases; health promotion; infections; inflammation; ingredients; intestinal microorganisms; irritable colon; **lactase deficiency**; lactobacillus; lactose intolerance; literature reviews; malabsorption; microbial flora; pathogens; probiotics; supplements

=> d 1

L23 ANSWER 1 OF 10 AGRICOLA
AN 2001:80759 AGRICOLA
DN IND23234393
TI Protection from gastrointestinal diseases with the use of probiotics.
AU Marteau, P.R.; Vrese, M. de.; Cellier, C.J.; Schrezenmeir, J.

AV DNAL (389.8 J824)
SO The American journal of clinical nutrition, Feb 2001. Vol. 73, No. 2S. p.
430S-436S
Publisher: Bethesda, .Md. : American Society for Clinical Nutrition.
CODEN: AJCNAC; ISSN: 0002-9165
NTE Paper presented at the International Symposium on Probiotics and
Prebiotics, June 11-12, 1998, Kiel, Germany.
Includes references
CY Maryland; United States
DT Article
FS U.S. Imprints not USDA, Experiment or Extension
LA English

=> d 1 kwic

L23 ANSWER 1 OF 10 AGRICOLA
CT **bifidobacterium**; colorectal cancer; diarrhea; diet treatment;
disease prevention; food products; gastroenteritis; gastrointestinal
diseases; health promotion; infections; inflammation; ingredients;
intestinal microorganisms; irritable colon; **lactase**
deficiency; lactobacillus; lactose intolerance; literature
reviews; malabsorption; microbial flora; pathogens; probiotics;
supplements

L44 ANSWER 2 OF 2 SCISEARCH COPYRIGHT 2002 ISI (R)

AB

The effect of immobilized bifidobacteria on **growth** and **siderophore** production of pathogenic strains of E. coli was investigated. **Bifidobacterium** sp. No. 904 significantly decreased numbers of two invasive avian E. coli strains during coculture cultivation. In addition significant decreasing of **siderophore** (aerobactin) level in E. coli was found.

L44 ANSWER 2 OF 2 SCISEARCH COPYRIGHT 2002 ISI (R)
AN 93:76436 SCISEARCH
GA The Genuine Article (R) Number: KJ641
TI INTERACTIONS OF BIFIDOBACTERIA WITH PATHOGENIC ESCHERICHIA-COLI
AU KMET V (Reprint); CIZMAROVA J; KMETOVA M
CS SLOVAK ACAD SCI, INST ANIM PHYSIOL, DUKELSKYCH HRDINOV 1B, CS-04001
KOSICE, CZECHOSLOVAKIA (Reprint)
CYA CZECHOSLOVAKIA
SO BIOLOGIA, (1992) Vol. 47, No. 9, pp. 767-769.
ISSN: 0006-3088.
DT Article; Journal
FS AGRI
LA ENGLISH
REC No References Keyed
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

> d 1-8

L47 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2002 ACS
AN 2001:932983 CAPLUS
TI Bifidobacteria and siderophores produced thereby and methods of use
IN O'Sullivan, Daniel J.
PA Regents of the University of Minnesota, USA
SO PCT Int. Appl.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001098516	A2	20011227	WO 2001-US41036	20010619
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
PRAI	US 2000-212273	A1	20000619		

L47 ANSWER 2 OF 8 USPATFULL
AN 2000:77340 USPATFULL
TI Methods for improving the activity of .delta.-endotoxins against insect pests
IN English, Leigh H., Churchville, PA, United States
Brussock, Susan M., New Hope, PA, United States
Malvar, Thomas M., St. Louis, MO, United States
Bryson, James W., Langhorne, PA, United States
Kulesza, Caroline A., Charlottesville, VA, United States
Walters, Frederick S., Beaver Falls, PA, United States
Slatin, Stephen L., Fair Lawn, NJ, United States
Von Tersch, Michael A., Erving Township, NJ, United States
PA Ecogen, Inc., Langhorne, PA, United States (U.S. corporation)
PI US 6077824 20000620
AI US 1997-993775 19971218 (8)
DT Utility
FS Granted
LN.CNT 48511
INCL INCLM: 514/012.000
INCLS: 435/069.100; 514/002.000; 530/350.000; 530/402.000
NCL NCLM: 514/012.000
NCLS: 435/069.100; 514/002.000; 530/350.000; 530/402.000
IC [7]
ICM: A61K038-16
ICS: C07K014-325; C12P021-02
EXF 530/350; 530/40.2; 435/69.1; 435/172.3; 514/2; 514/12
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L47 ANSWER 3 OF 8 USPATFULL
AN 2000:61413 USPATFULL
TI Polypeptide compositions toxic to coleopteran insects
IN English, Leigh H., Churchville, PA, United States
Brussock, Susan M., New Hope, PA, United States

Malvar, Thomas M., St. Louis, MO, United States
Bryson, James W., Langhorne, PA, United States
Kulesza, Caroline A., Charlottesville, VA, United States
Walters, Frederick S., Beaver Falls, PA, United States
Slatin, Stephen L., Fair Lawn, NJ, United States
Von Tersch, Michael A., Ewing Township, NJ, United States
PA Monsanto Company, St. Louis, MO, United States (U.S. corporation)
PI US 6063597 20000516
AI US 1997-993170 19971218 (8)
DT Utility
FS Granted
LN.CNT 17128
INCL INCLM: 435/069.100
INCLS: 514/012.000; 530/350.000; 536/023.710
NCL NCLM: 435/069.100
NCLS: 514/012.000; 530/350.000; 536/023.710
IC [7]
ICM: C12P021-06
ICS: A61K038-00; C07K001-00; C07H021-04
EXF 424/93; 424/832; 435/252.31; 435/252.3; 435/320.1; 536/23.71; 536/24.32
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L47 ANSWER 4 OF 8 USPATFULL
AN 2000:57888 USPATFULL
TI Nucleic acid segments encoding modified bacillus thuringiensis
coleopteran-toxic crystal proteins
IN English, Leigh H., Churchville, PA, United States
Brussock, Susan M., New Hope, PA, United States
Malvar, Thomas M., St. Louis, MO, United States
Bryson, James W., Langhorne, PA, United States
Kulesza, Caroline A., Charlottesville, VA, United States
Walters, Frederick S., Beaver Falls, PA, United States
Slatin, Stephen L., Fair Lawn, NJ, United States
Von Tersch, Michael A., Ewing Township, NJ, United States
Romano, Charles, Ballwin, MO, United States
PA Ecogen, Inc., Langhorn, PA, United States (U.S. corporation)
Monsanto Company, St. Louis, MO, United States (U.S. corporation)
PI US 6060594 20000509
AI US 1997-993722 19971218 (8)
DT Utility
FS Granted
LN.CNT 16988
INCL INCLM: 536/023.710
INCLS: 435/320.100; 435/440.000
NCL NCLM: 536/023.710
NCLS: 435/320.100; 435/440.000
IC [7]
ICM: C12N015-32
ICS: C12N015-82
EXF 435/320.1; 435/440; 536/23.71; 536/24.1
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L47 ANSWER 5 OF 8 USPATFULL
AN 2000:15789 USPATFULL
TI Insect-resistant transgenic plants
IN English, Leigh H., Churchville, PA, United States
Brussock, Susan M., New Hope, PA, United States
Malvar, Thomas M., St. Louis, MO, United States
Bryson, James W., Langhorne, PA, United States
Kulesza, Caroline A., Charlottesville, VA, United States
Walters, Frederick S., Beaver Falls, PA, United States
Slatin, Stephen L., Fair Lawn, NJ, United States
Von Tersch, Michael A., Ewing Township, NJ, United States
Romano, Charles, Wildwood, MO, United States
PA Monsanto Company, St. Louis, MO, United States (U.S. corporation)
Ecogen, Inc., Langhorne, PA, United States (U.S. corporation)

PI US 6023013 20000208
 AI US 1997-996441 19971218 (8)
 DT Utility
 FS Granted
 LN.CNT 16867
 INCL INCLM: 800/302.000
 INCLS: 435/252.300; 435/419.000; 800/279.000
 NCL NCLM: 800/302.000
 NCLS: 435/252.300; 435/419.000; 800/279.000
 IC [6]
 ICM: A01H005-00
 ICS: A01H005-10; C12N001-21; C12N005-14
 EXF 536/23.71; 436/320.1; 436/69.1; 436/235.1; 436/243; 436/252.3;
 436/252.2; 436/252.31; 436/252.33; 436/252.34; 436/419; 436/411;
 436/412; 436/414; 436/415; 436/416; 436/417; 436/418; 436/468; 436/469;
 436/470; 436/440; 800/279; 800/302
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L47 ANSWER 6 OF 8 DRUGU COPYRIGHT 2002 DERWENT INFORMATION LTD
 AN 1999-01362 DRUGU M
 TI Mechanism of inhibition of tannic acid and related compounds on the
 growth of intestinal bacteria.
 AU Chung K T; Lu Z; Chou M W
 CS Univ.Memphis
 LO Memphis, Tenn.; Jefferson, Ariz., USA
 SO Food Chem.Toxicol. (36, No. 12, 1053-60, 1998) 3 Fig. 2 Tab. 38 Ref.
 CODEN: FCTOD7 ISSN: 0278-6915
 AV Department of Microbiology and Molecular Cell Sciences, The University
 of
 Memphis, Memphis, TN 38152, U.S.A.
 LA English
 DT Journal
 FA AB; LA; CT
 FS Literature

L47 ANSWER 7 OF 8 BIOSIS COPYRIGHT 2002 BIOSIS DUPLICATE 1
 AN 1993:208519 BIOSIS
 DN PREV199395109744
 TI Interactions of bifidobacteria with pathogenic Escherichia coli.
 AU Kmet, Vladimir (1); Cizmarova, Judita (1); Kmetova, Marta
 CS (1) Inst. Anim. Physiol., Slovak Acad. Sci., Dukelskych hrdinov 1 B,
 CS-040 01 Kosice, Czecho-Slovakia
 SO Biologia (Bratislava), (1992) Vol. 47, No. 9, pp. 767-769.
 ISSN: 0006-3088.
 DT Article
 LA English
 SL English; Slovak

L47 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 2
 AN 1986:221796 CAPLUS
 DN 104:221796
 TI Iron uptake by *Bifidobacterium bifidum* var. pennsylvanicus: the
 effect of sulfhydryl reagents and metal chelators
 AU Topouzian, Nancy; Bezkorovainy, Anatoly
 CS Dep. Biochem., Rush Presbyterian-St Luke's Med. Cent., Chicago, IL,
 60612,
 USA
 SO IRCS Med. Sci. (1986), 14(3), 275-6
 CODEN: IMSCE2
 DT Journal
 LA English

L47 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 2
AN 1986:221796 CAPLUS
DN 104:221796
TI Iron uptake by *Bifidobacterium bifidum* var. *pennsylvanicus*: the
effect of sulfhydryl reagents and metal chelators
AU Topouzian, Nancy; Bezkorovainy, Anatoly
CS Dep. Biochem., Rush Presbyterian-St Luke's Med. Cent., Chicago, IL,
60612,
USA
SO IRCS Med. Sci. (1986), 14(3), 275-6
CODEN: IMSCE2
DT Journal
LA English

=> d 8 ab

L47 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 2
AB Fe²⁺ uptake by *B. bifidum pennsylvanica* was examd. by using ⁵⁹Fe²⁺ as a
tracer. Transport was inhibited by sulfhydryl-specific inhibitors
(trinitrobenzene sulfonic acid, p-chloromercuribenzoate, and
iodoacetate).
Thus, sulfhydryl groups are crucial for the transport mechanism. Fe
chelators, including **siderophore**, ionophore, and lipophilic
types, also inhibited uptake of Fe²⁺. This suggests either that a very
specific Fe carrier is required or that Fe²⁺ is taken up in its free form
and chelation presents a barrier to movement into the cell.

L56 ANSWER 1 OF 3 BIOSIS COPYRIGHT 2002 BIOSIS
 AN 1993:208519 BIOSIS
 DN PREV199395109744
 TI Interactions of bifidobacteria with pathogenic Escherichia coli.
 AU Kmet, Vladimir (1); Cizmarova, Judita (1); Kmetova, Marta
 CS (1) Inst. Anim. Physiol., Slovak Acad. Sci., Dukelskych hrdinov 1 B,
 CS-040 01 Kosice, Czecho-Slovakia
 SO Biologia (Bratislava), (1992) Vol. 47, No. 9, pp. 767-769.
 ISSN: 0006-3088.
 DT Article
 LA English
 SL English; Slovak

L56 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2002 ACS
 AN 2001:932983 CAPLUS
 TI Bifidobacteria and siderophores produced thereby and methods of use
 IN O'Sullivan, Daniel J.
 PA Regents of the University of Minnesota, USA
 SO PCT Int. Appl.
 CODEN: PIXXD2

DT Patent
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001098516	A2	20011227	WO 2001-US41036	20010619
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
	CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM,				
	HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,				
	LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,				
	RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ,				
	VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,				
	DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,				
	BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRAI	US 2000-212273	A1	20000619		

L56 ANSWER 3 OF 3 DRUGU COPYRIGHT 2002 DERWENT INFORMATION LTD
 AN 1999-01362 DRUGU M
 TI Mechanism of inhibition of tannic acid and related compounds on the
 growth of intestinal bacteria.
 AU Chung K T; Lu Z; Chou M W
 CS Univ.Memphis
 LO Memphis, Tenn.; Jefferson, Ariz., USA
 SO Food Chem.Toxicol. (36, No. 12, 1053-60, 1998) 3 Fig. 2 Tab. 38 Ref.
 CODEN: FCTOD7 ISSN: 0278-6915
 AV Department of Microbiology and Molecular Cell Sciences, The University
 of
 Memphis, Memphis, TN 38152, U.S.A.
 LA English
 DT Journal
 FA AB; LA; CT
 FS Literature

L56

3 L55 AND BIFIDOBACTERIUM(P) SIDEROPHORE

=> d 1-3

L56 ANSWER 1 OF 3 BIOSIS COPYRIGHT 2002 BIOSIS
 AN 1993:208519 BIOSIS
 DN PREV199395109744
 TI Interactions of bifidobacteria with pathogenic Escherichia coli.
 AU Kmet, Vladimir (1); Cizmarova, Judita (1); Kmetova, Marta
 CS (1) Inst. Anim. Physiol., Slovak Acad. Sci., Dukelskych hrdinov 1 B,
 CS-040 01 Kosice, Czecho-Slovakia
 SO Biologia (Bratislava), (1992) Vol. 47, No. 9, pp. 767-769.
 ISSN: 0006-3088.
 DT Article
 LA English
 SL English; Slovak

L56 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2002 ACS
 AN 2001:932983 CAPLUS
 TI Bifidobacteria and siderophores produced thereby and methods of use
 IN O'Sullivan, Daniel J.
 PA Regents of the University of Minnesota, USA
 SO PCT Int. Appl.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001098516	A2	20011227	WO 2001-US41036	20010619
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
	CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM,				
	HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,				
	LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,				
	RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ,				
	VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,				
	DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,				
	BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRAI	US 2000-212273	A1	20000619		

L56 ANSWER 3 OF 3 DRUGU COPYRIGHT 2002 DERWENT INFORMATION LTD
 AN 1999-01362 DRUGU M
 TI Mechanism of inhibition of tannic acid and related compounds on the
 growth of intestinal bacteria.
 AU Chung K T; Lu Z; Chou M W
 CS Univ.Memphis
 LO Memphis, Tenn.; Jefferson, Ariz., USA
 SO Food Chem.Toxicol. (36, No. 12, 1053-60, 1998) 3 Fig. 2 Tab. 38 Ref.
 CODEN: FCTOD7 ISSN: 0278-6915
 AV Department of Microbiology and Molecular Cell Sciences, The University
 of Memphis, Memphis, TN 38152, U.S.A.
 LA English
 DT Journal
 FA AB; LA; CT
 FS Literature

6 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2002 ACS
AN 1986:221796 CAPLUS
DN 104:221796
TI Iron uptake by **Bifidobacterium** bifidum var. pennsylvanicus: the
effect of sulfhydryl reagents and metal chelators
AU Topouzian, Nancy; Bezkorovainy, Anatoly
CS Dep. Biochem., Rush Presbyterian-St Luke's Med. Cent., Chicago, IL, 60612,
USA
SO IRCS Med. Sci. (1986), 14(3), 275-6
CODEN: IMSCE2
DT Journal
LA English

=> d 2 ab

L6 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2002 ACS
AB Fe²⁺ uptake by **B. bifidum** pennsylvania was examd. by using ⁵⁹Fe²⁺ as a
tracer. Transport was inhibited by sulfhydryl-specific inhibitors
(trinitrobenzene sulfonic acid, p-chloromercuribenzoate, and iodoacetate).
Thus, sulfhydryl groups are crucial for the transport mechanism. Fe
chelators, including **siderophore**, ionophore, and lipophilic
types, also inhibited uptake of Fe²⁺. This suggests either that a very
specific Fe carrier is required or that Fe²⁺ is taken up in its free form
and chelation presents a barrier to movement into the cell.

=> d kwic 2

L6 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2002 ACS
TI Iron uptake by **Bifidobacterium** bifidum var. pennsylvanicus: the
effect of sulfhydryl reagents and metal chelators
AB . . . sulfhydryl-specific inhibitors (trinitrobenzene sulfonic acid,
p-chloromercuribenzoate, and iodoacetate). Thus, sulfhydryl groups are
crucial for the transport mechanism. Fe chelators, including
siderophore, ionophore, and lipophilic types, also inhibited
uptake of Fe²⁺. This suggests either that a very specific Fe carrier is
required. . . .
ST **Bifidobacterium** iron transport
IT Mercapto group
(iron transport by **Bifidobacterium** bifidum pennsylvanicus in
relation to)
IT Chelating agents
(iron transport by **Bifidobacterium** bifidum pennsylvanicus
response to)
IT **Bifidobacterium** bifidum pennsylvanicus
(iron transport by, sulfhydryl reagents and metal chelators effect on)
IT Biological transport
(absorption, of iron, by **Bifidobacterium** bifidum
pennsylvanicus, sulfhydryl reagents and metal chelators effect on)
IT 7439-89-6, biological studies
RL: BIOL (Biological study)
(transport of, by **Bifidobacterium** bifidum pennsylvanicus,
sulfhydryl reagents and metal chelators effect on)

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L9 ANSWER 2 OF 2 SCISEARCH COPYRIGHT 2002 ISI (R)
 AN 93:76436 SCISEARCH
 GA The Genuine Article (R) Number: KJ641
 TI INTERACTIONS OF BIFIDOBACTERIA WITH PATHOGENIC ESCHERICHIA-COLI
 AU KMET V (Reprint); CIZMAROVA J; KMETOVA M
 CS SLOVAK ACAD SCI, INST ANIM PHYSIOL, DUKELSKYCH HRDINOV 1B, CS-04001
 KOSICE, CZECHOSLOVAKIA (Reprint)
 CYA CZECHOSLOVAKIA
 SO BIOLOGIA, (1992) Vol. 47, No. 9, pp. 767-769.
 ISSN: 0006-3088.
 DT Article; Journal
 FS AGRI
 LA ENGLISH
 REC No References Keyed
 ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

=> d 2 hit

L9 ANSWER 2 OF 2 SCISEARCH COPYRIGHT 2002 ISI (R)
 AB The effect of immobilized bifidobacteria on **growth** and
siderophore production of pathogenic strains of E. coli was
 investigated. **Bifidobacterium** sp. No. 904 significantly
 decreased numbers of two invasive avian E. coli strains during coculture
 cultivation. In addition significant decreasing of **siderophore**
 (aerobactin) level in E. coli was found.
 ST Author Keywords: **BIFIDOBACTERIUM**; **IRON** INTAKE
 ACTIVITY; **SIDEROPHORES**; **AEROBACTIN**; **ESCHERICHIA-COLI**

=> s 19 and bifidobacterium secret?

L10 0 L9 AND BIFIDOBACTERIUM SECRET?

=> s 19 and secret?

L11 0 L9 AND SECRET?

102/103
 class 15 ; 16-22, 27, 29

> d 18

L12 ANSWER 18 OF 54 CAPLUS COPYRIGHT 2002 ACS
AN 1997:698332 CAPLUS
DN 127:343663
TI Iron requirement and siderophore production in *Rhizobium ciceri* during growth on an iron-deficient medium
AU Berraho, El.; Lesueur, D.; Diem, H. G.; Sasson, A.
CS Laboratoire de Microbiologie, Universite Mohammed V, Rabat, Morocco
SO World Journal of Microbiology & Biotechnology (1997), 13(5), 501-510
CODEN: WJMBEY; ISSN: 0959-3993
PB Rapid Science Publishers
DT Journal
LA English

=> d 18 ab

L12 ANSWER 18 OF 54 CAPLUS COPYRIGHT 2002 ACS
AB Under conditions of Fe limitation many rhizospheric **bacteria** produce **siderophores**, Fe³⁺-specific ligands, which may enhance plant growth by increasing the availability of Fe near the roots. Thirty-five strains of *R. ciceri*, specific to chickpea (*Cicer arietinum* L.), were screened for their ability to grow on Fe-deficient medium and to produce **siderophores**. Max. growth of all strains previously depleted in Fe was obtained in medium contg. 5-10 μ M Fe³⁺. When Fe limitation was achieved by the addn. of 2,2-bipyridyl or EDDHA [ethylene diamine di(o-hydroxyphenyl)acetic acid] to the medium, only 2 strains were able to scavenge Fe and grow. **Siderophore** prodn. by these 2 strains was detected by the Chrome Azurol S assay (CAS), a universal test for **siderophores**. No hydroxamate-type **siderophores** were detected in the supernatants of *Rhizobium ciceri* cultures. However, some strains **secreted** salicylic acid and 2,3-dihydroxybenzoic acid as phenolate-type **siderophores**. Addn. of Fe³⁺ to the culture medium increased growth yield significantly but depressed the prodn. of **siderophores**. Although these compds. are produced in response to Fe deficiency, nutritive components of the culture medium significantly affected their prodn. It seems that Cu²⁺, Mo⁶⁺, and Mn²⁺ bound competitively with Fe to **siderophores**, resulting in a 34-100% increase in prodn.

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L12 ANSWER 10 OF 54 CAPLUS COPYRIGHT 2002 ACS

AN 1999:722846 CAPLUS

DN 131:333001

TI Enhancing the anti-corrosion effects of biofilms by introducing bacteria which secrete antimicrobials capable of inhibiting sulfate-reducing bacteria

IN Wood, Thomas K.; Jayaraman, Arul; Earthman, James C.

PA The Regents of the University of California, USA

SO PCT Int. Appl., 84 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9956553	A1	19991111	WO 1999-US9675	19990503
	W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	AU 9938785	A1	19991123	AU 1999-38785	19990503
	EP 1011331	A1	20000628	EP 1999-921627	19990503
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
	JP 2002511105	T2	20020409	JP 1999-555720	19990503
	NO 9906555	A	20000306	NO 1999-6555	19991229
	FI 2000000010	A	20000303	FI 2000-10	20000104
PRAI	US 1998-74037	A	19980506		
	US 1999-282277	A	19990331		
	WO 1999-US9675	W	19990503		

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L12 ANSWER 10 OF 54 CAPLUS COPYRIGHT 2002 ACS

AB The invention provides a system for inhibiting corrosion, comprising a corrosion or degrdn. sensitive material (metals, concrete, or cement) having a biofilm on its surface, wherein the biofilm includes a bacterium which **secretes** a chem. compn. in an amt. sufficient to inhibit the growth of sulfate-reducing **bacteria** on the material. The bacterium included in the biofilm is preferably an aerobe, particularly of the genus *Pseudomonas* or the genus *Bacillus*. The compn. **secreted** can be an antibiotic, such as gramicidin S, indolicidin, polymyxin, or bactenecin; a polyamino acid, such as polyaspartate or polyglutamate; or it can be a **siderophore**.

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